

**Answer:**

1. The table and graph both represent the same pattern or equation ( $2n + 1$ ). The difference is that the table shows the pattern using numbers while the graph shows the pattern using a picture. Another difference is that in the table the input does not increase by the same amount each time, while in the graph it does.
2. It is easier to tell that the pattern is linear, or has a constant rate of change, by the straight line on the graph. In the table it is not as obvious, particularly since the input does not increase by 1 each time.
3. The rate of change is 2. The rate of change between (3,7) and (10,21) is  $14/7$  or 2

or

by filling in the missing inputs on the table, the output increases by 2 each time, therefore the rate of change is 2.

Input	3	4	5	6	7	8	9	10
Output	7	9	11	13	15	17	19	21